

## Photometric test report

Family  
Ecopack® 31

Order number: 51LJ12MKM40A3G  
EAN: 4058352671085

LP number  
59348\_11



**Version** diffuser optic, frosted, polycarbonate,  
adjustable color temperature: 3000K | 4000K |  
5000K, extremely wide distribution, emergency  
light element 3h operating duration

**Lamps** LED 5000 K | CRI ≥ 80

**Controlgear** ECG Multilumen

**Setting** individual position: colour temperature 5000K

**Rated values** Net luminous flux = 4890 lm  
Power consumption = 36.5 W  
Luminous efficacy = 134 lm/W

serial  
documentation  
19.08.2022

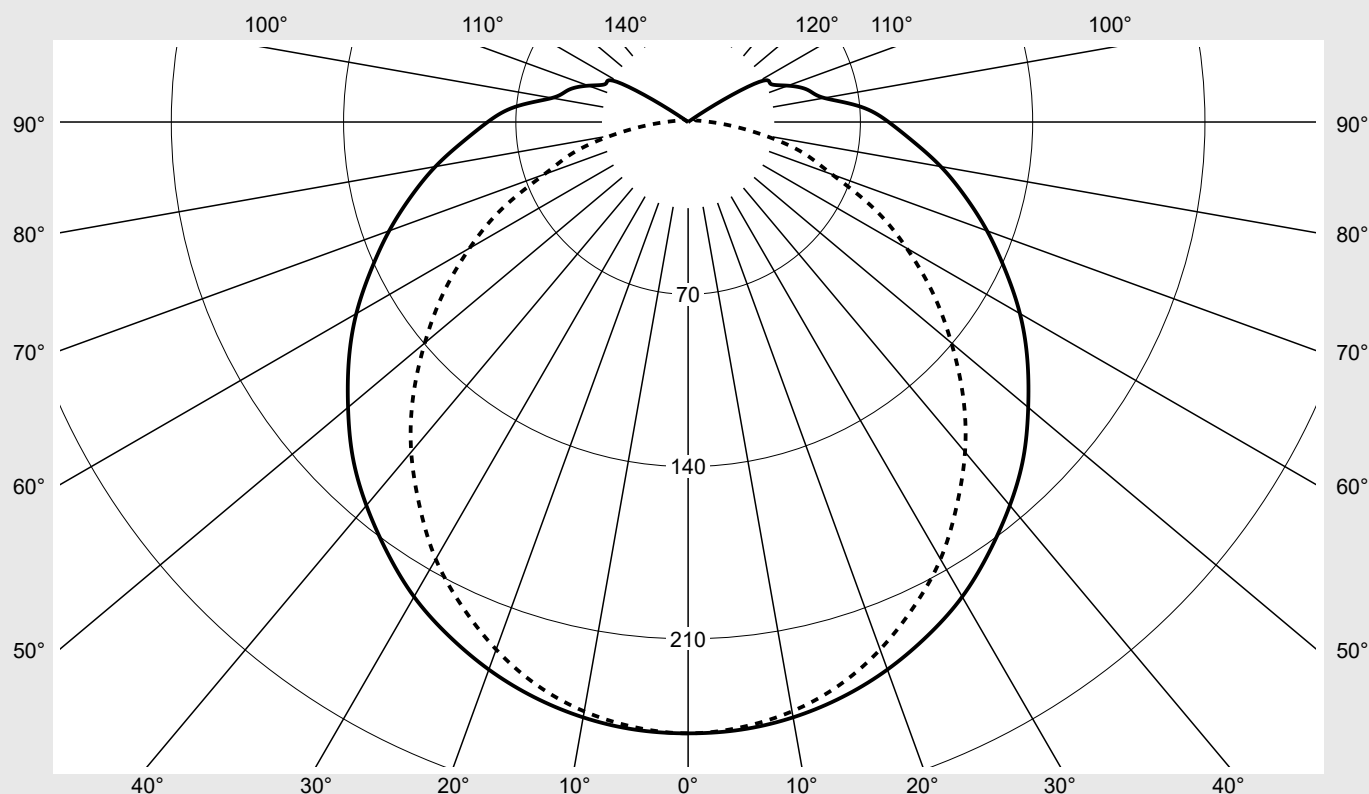
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 248 cd/klm



### Classifications

DIN 5040 B 3 1  
CIE N1=39 N2=67 N3=87  
N4=89 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  88.8%  
 $\phi_o$  11.2%

### Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	248.4	248.4	248.4	248.4	248.4	248.4	248.4	1.5	1.5
5°	247.8	248.0	248.2	247.6	247.0	246.9	246.9	11.8	13.3
10°	245.6	246.0	246.3	244.9	243.5	243.3	243.2	23.3	36.6
15°	241.9	242.3	242.7	240.5	238.4	237.7	237.0	34.1	70.7
20°	236.8	237.0	237.1	234.0	230.9	229.5	228.1	43.8	114.5
25°	230.3	230.4	230.5	226.1	221.8	219.5	217.2	52.2	166.7
30°	222.7	222.6	222.5	216.9	211.3	208.2	205.1	59.2	225.8
35°	213.3	213.1	212.8	205.7	198.6	194.5	190.3	64.3	290.1
40°	203.4	202.9	202.5	193.9	185.3	180.1	175.0	67.8	357.8
45°	192.7	192.1	191.5	181.3	171.1	164.6	158.1	69.5	427.3
50°	180.4	179.6	178.8	167.2	155.7	147.7	139.7	69.2	496.6
55°	168.3	167.2	166.2	153.2	140.3	130.9	121.5	67.6	564.1
60°	155.7	154.5	153.3	139.2	125.1	113.8	102.5	64.5	628.6
65°	142.1	141.2	140.3	124.9	109.4	96.4	83.4	60.0	688.6
70°	129.3	128.0	126.8	110.8	94.9	78.6	62.2	54.5	743.1
75°	116.5	115.1	113.8	97.8	81.8	65.0	48.3	49.1	792.2
80°	104.3	102.8	101.4	86.0	70.6	51.1	31.7	43.2	835.4
85°	91.9	90.5	89.2	73.8	58.4	38.0	17.7	36.8	872.2
90°	81.5	79.6	77.8	62.8	47.8	28.4	9.1	31.2	903.4
95°	70.6	66.3	62.0	50.4	38.9	22.1	5.3	25.3	928.7
100°	56.2	54.3	52.5	39.2	26.0	14.7	3.5	19.5	948.1
105°	50.3	48.5	46.6	34.6	22.7	12.9	3.1	16.9	965.1
110°	43.2	41.8	40.4	29.8	19.3	11.1	2.9	14.2	979.3
115°	36.9	35.3	33.8	24.8	15.9	9.4	2.8	11.5	990.8
120°	31.0	29.8	28.6	20.6	12.7	7.7	2.6	9.2	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>								
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	21.1	22.8	21.6	23.2	23.7	20.6	22.3	21.0	22.7	23.1
	3H	23.2	24.7	23.6	25.2	25.6	22.3	23.8	22.7	24.2	24.7
	4H	24.2	25.6	24.6	26.1	26.5	22.9	24.4	23.4	24.9	25.3
	6H	25.1	26.4	25.6	26.9	27.5	23.5	24.9	24.0	25.4	25.9
	8H	25.6	26.8	26.1	27.3	27.9	23.8	25.1	24.3	25.6	26.1
12H	26.0	27.2	26.6	27.7	28.3	23.9	25.2	24.4	25.7	26.2	
4H	2H	21.9	23.4	22.4	23.8	24.3	21.5	22.9	21.9	23.3	23.8
	3H	24.2	25.4	24.7	25.9	26.4	23.3	24.6	23.8	25.0	25.6
	4H	25.3	26.5	25.8	27.0	27.5	24.2	25.3	24.7	25.9	26.4
	6H	26.4	27.4	27.0	28.0	28.6	25.0	26.0	25.5	26.5	27.1
	8H	27.0	27.9	27.6	28.5	29.1	25.3	26.3	25.9	26.8	27.4
12H	27.5	28.3	28.1	28.9	29.6	25.5	26.4	26.1	27.0	27.6	
8H	4H	25.7	26.7	26.3	27.3	27.9	24.8	25.7	25.4	26.3	26.9
	6H	27.1	27.9	27.7	28.5	29.2	25.8	26.6	26.4	27.2	27.9
	8H	27.8	28.5	28.4	29.1	29.8	26.3	27.0	26.9	27.6	28.3
	12H	28.5	29.1	29.1	29.7	30.4	26.7	27.3	27.3	27.9	28.6
12H	4H	25.8	26.6	26.4	27.2	27.9	24.9	25.7	25.5	26.3	27.0
	6H	27.2	27.9	27.8	28.5	29.2	26.0	26.7	26.7	27.3	28.0
	8H	28.0	28.6	28.6	29.3	30.0	26.6	27.2	27.2	27.8	28.6

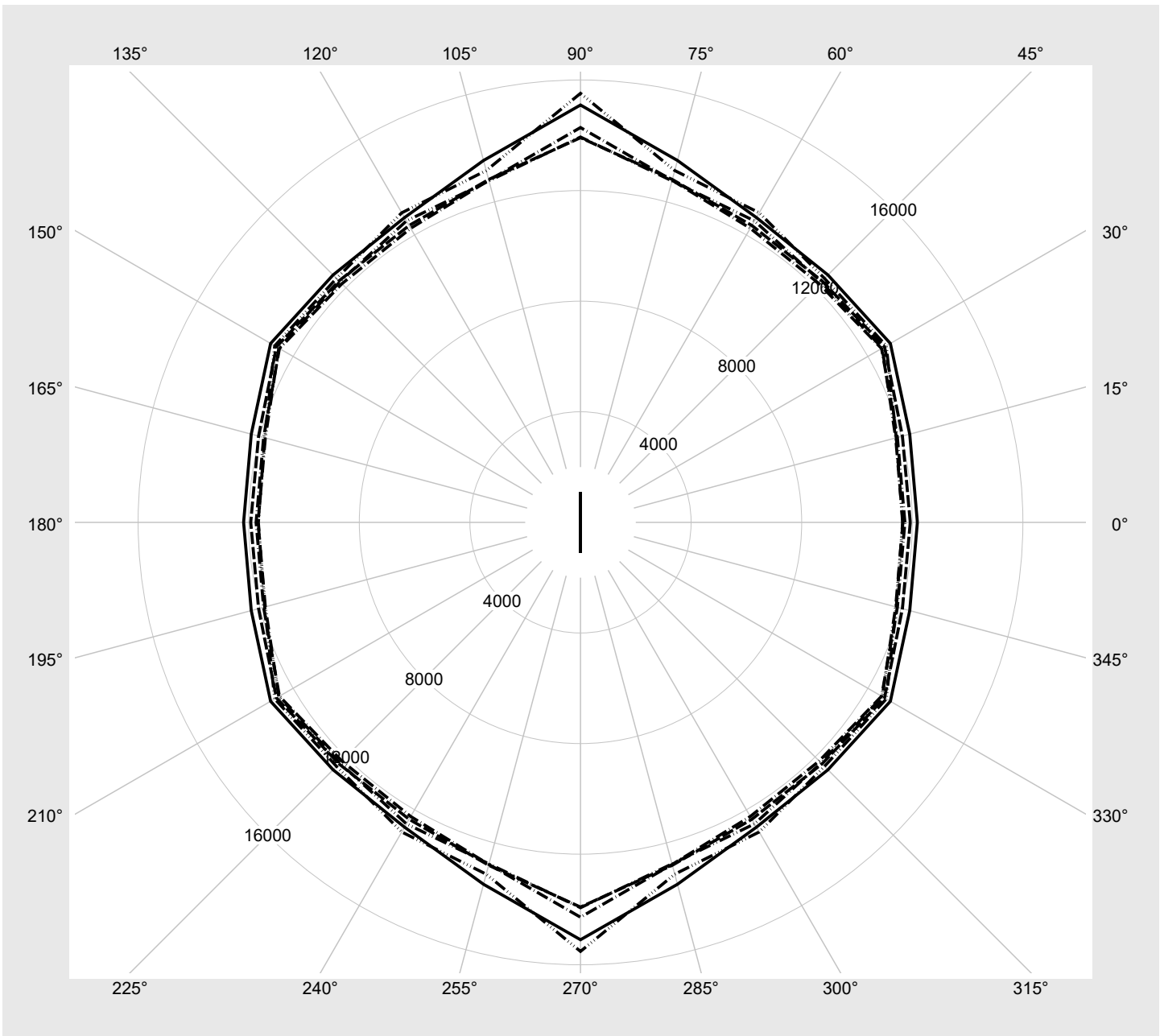
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1142</b>	<b>H(C0) = 29</b>	<b>H(C180) = 29</b>
			<b>B = 56</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	45°	13727.7	13844.5	14292.7	14349.5	14699.4	15695.3	17092.3	
50°	50°	13268.9	13383.3	13858.1	13848.5	14152.0	15146.4	16612.6	
55°	55°	12895.2	13003.1	13503.5	13414.2	13656.3	14649.5	16200.9	
60°	60°	12550.4	12658.2	13193.9	13023.6	13203.4	14124.4	15682.1	
65°	65°	12184.5	12327.8	12941.4	12654.6	12728.4	13550.6	15094.7	
70°	70°	11927.0	12053.8	12697.2	12352.4	12397.7	12837.8	13913.1	
75°	75°	11733.3	11865.2	12574.5	12205.8	12282.6	12808.7	14279.7	
80°	80°	11661.6	11801.5	12600.9	12306.8	12590.4	12787.6	13937.1	
85°	85°	11651.3	11823.7	12770.3	12479.5	12928.8	13173.1	15516.3	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>siteco</b>
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	4890	36.5
2	ON	OFF	4310	31.5
1	OFF	ON	3620	26.5
0	OFF	OFF	2920	21.5